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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Prior Application:

Applicant: Mahant-Shetti Art Unit: 2612

Serial No.: 09/073,370 Examiner: Luong Nguyen

Filed: May 5, 1998 Docket: TI-21674

For: CMOS SENSOR CAMERA WITH ON-CHIP IMAGE COMPRESSION

This Application:

Applicant: Mahant-Shetti Art Unit:

Serial No.: Examiner:

Filed: December 18, 2001 Docket: TI-21674.1

For: CMOS SENSOR CAMERA WITH ON-CHIP IMAGE COMPRESSION

Preliminary Amendment

Assistant Commissioner for Patents Washington, D.C. 20231

Dear Sir:

Prior to examination on the merits of this application, please make the following amendments.

In the Claims

Please amend the claims as follows:

Cancel claims 1 to 6 and 10 to 16.

Add new claims 17 to 20 as follows:

17. The method of Claim 8, wherein: 1 said step of dividing the wordline period into intervals 2 includes dividing a wordline period T into eight intervals of 3 duration $T\cos(n\times11.25)$, where n is an integer 0, 1, 2, 3, 4, 5, 6 4 5 or 7. 18. The method of Claim 7, wherein: 1 said step of dividing the wordline period into intervals 2 includes dividing a wordline period T into intervals t0 = 0, 3 t1 = 0.19T, t2 = 0.38T, t3 = 0.55T, t4 = 0.71T, t5 = 0.83T, 4 t6 = 0.92T and t7 = T. 5 The method of Claim 18, wherein: said step of dividing a bitline period into said intervals and into subintervals includes into subintervals interval t1-t0 dividing an t11 = 0.19(t1-t0), t12 = 0.38(t1-t0), t13 = 0.55(t1-t0),t14 = 0.71(t1-t0), t15 = 0.83(t1-t0), t16 = 0.92(t1-t0) and t17 = (t1-t0),t2-t1 into subintervals interval dividing t21 = 0.19(t2-t1), t22 = 0.38(t2-t1), t23 = 0.55(t2-t1), t24 = 0.71(t2-t1), t25 = 0.83(t2-t1), t26 = 0.92(t2-t1) and Ħ t27 = (t2-t1),12 dividina an interval t3-t2 into subintervals t31 = 0.19(t3-t2), t32 = 0.38(t3-t2), t33 = 0.55(t3-t2), 13 t34 = 0.71(t3-t2), t35 = 0.83(t3-t2), t36 = 0.92(t3-t2) and 14 15 t37 = (t3-t2),dividing an interval t4-t3 into subintervals 16

t41 = 0.19(t4-t3), t42 = 0.38(t4-t3), t43 = 0.55(t4-t3),

t44 = 0.71(t4-t3), t45 = 0.83(t4-t3), t46 = 0.92(t4-t3) and

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18 19

t47 = (t4-t3),

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an interval t5-t4 into subintervals
             dividing
20
         t51 = 0.19(t5-t4), t52 = 0.38(t5-t4), t53 = 0.55(t5-t4),
21
         t54 = 0.71(t5-t4), t55 = 0.83(t5-t4), t56 = 0.92(t5-t4) and
22
         t57 = (t5-t4),
23
                        an interval
                                        t6-t5
                                               into
                                                       subintervals
             dividing
24
         t61 = 0.19(t6-t5), t62 = 0.38(t6-t5), t63 = 0.55(t6-t5),
25
         t64 = 0.71(t6-t5), t65 = 0.83(t6-t5), t66 = 0.92(t6-t5) and
26
         t67 = (t6-t5),
27
                             interval t7-t6
                                                into
                                                       subintervals
             dividing an
28
         t71 = 0.19(t7-t6), t72 = 0.38(t7-t6), t73 = 0.55(t7-t6),
29
         t74 = 0.71(t7-t6), t75 = 0.83(t7-t6), t76 = 0.92(t7-t6) and
30
31
         t77 = (t7-t6).
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20. The method of Claim 9, wherein:

said step of dividing the wordline period into intervals includes dividing a wordline period 10T into intervals t0=0, t1=2T, t2=4T, t3=6T, t4=7T, t5=8T, t6=9T and t7=10T.

REMARKS

The claims are claims 7 to 9 and 17 to 20.

Claims 1 to 6 and 10 to 16 have been canceled. Claims 7 to 0 correspond to Group II of the restriction requirement of October 29, 2001 in the parent application serial no. 09/073,370 of this divisional application.

New claims 17 to 20 have been added. New claims 17 to 19 recite the intervals for the wordline periods and the bitline periods for the discrete consign transform disclosed in the original application at page 10, line 7 to page 11, line 5. Claim 20 recites the intervals for the wordline periods and the bitline

periods for the articulated trapezoid transform disclosed in the original application at page 17, lines 7 to 34.

The Applicants respectfully submit that all the present claims are allowable for the reasons set forth above. Therefore early consideration on the merits and advance to issue are respectfully requested.

If the Examiner has any questions or other correspondence regarding this application, Applicants request that the Examiner contact Applicants' attorney at the below listed telephone number and address to facilitate prosecution.

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Respectfully submitted,

Robert D. Marshall, Jr. Reg. No. 28,527

MAILING CERTIFICATE Under 37 C.F.R. 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231 on December 18, 2001.

Robert D. Marshall, Jr. Registration No. 28,527

VERSION WITH MARKINGS TO SHOW CHANGES MADE

Note inserted text is marked by <u>underlining</u> and deleted text is marked by <u>strikeout</u>.

In the Claims

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Please amend the claims as follows:

Cancel claims 1 to 6 and 10 to 16.

Add new claims 17 to 20 as follows:

17. The method of Claim 8, wherein:

said step of dividing the wordline period into intervals includes dividing a wordline period T into eight intervals of duration $T\cos(n\times11.25)$, where n is an integer 0, 1, 2, 3, 4, 5, 6 or 7.

18. The method of Claim 7, wherein:

said step of dividing the wordline period into intervals includes dividing a wordline period T into intervals t0=0, t1=0.19T, t2=0.38T, t3=0.55T, t4=0.71T, t5=0.83T, t6=0.92T and t7=T.

- 1 19. The method of Claim 18, wherein:
 - said step of dividing a bitline period into said intervals and
- 3 into subintervals includes

dividing an interval t1-t0 into subintervals

t11 = 0.19(t1-t0), t12 = 0.38(t1-t0), t13 = 0.55(t1-t0),

t14 = 0.71(t1-t0), t15 = 0.83(t1-t0), t16 = 0.92(t1-t0) and

t17 = (t1-t0),

```
dividing an interval t2-t1 into subintervals
8
        t21 = 0.19(t2-t1), t22 = 0.38(t2-t1), t23 = 0.55(t2-t1),
9
        t24 = 0.71(t2-t1), t25 = 0.83(t2-t1), t26 = 0.92(t2-t1) and
10
         t27 = (t2-t1),
11
             dividing an interval t3-t2 into subintervals
12
         t31 = 0.19(t3-t2), t32 = 0.38(t3-t2), t33 = 0.55(t3-t2),
13
         t34 = 0.71(t3-t2), t35 = 0.83(t3-t2), t36 = 0.92(t3-t2) and
14
15
         t37 = (t3-t2),
             dividing an interval t4-t3 into subintervals
16
         t41 = 0.19(t4-t3), t42 = 0.38(t4-t3), t43 = 0.55(t4-t3),
17
         t44 = 0.71(t4-t3), t45 = 0.83(t4-t3), t46 = 0.92(t4-t3) and
18
19
         t47 = (t4-t3),
              dividing an interval t5-t4 into subintervals
2 2 2 2 2 2 2 2
         t51 = 0.19(t5-t4), t52 = 0.38(t5-t4), t53 = 0.55(t5-t4),
         t54 = 0.71(t5-t4), t55 = 0.83(t5-t4), t56 = 0.92(t5-t4) and
         t57 = (t5-t4),
              dividing an interval t6-t5 into subintervals
         t61 = 0.19(t6-t5), 	 t62 = 0.38(t6-t5), 	 t63 = 0.55(t6-t5),
26 27 28 9
         t64 = 0.71(t6-t5), t65 = 0.83(t6-t5), t66 = 0.92(t6-t5) and
         t67 = (t6-t5),
              dividing an interval t7-t6 into subintervals
         t71 = 0.19(t7-t6), t72 = 0.38(t7-t6), t73 = 0.55(t7-t6),
30
         t74 = 0.71(t7-t6), t75 = 0.83(t7-t6), t76 = 0.92(t7-t6) and
31
         t77 = (t7-t6).
         20. The method of Claim 9, wherein:
 1
         said step of dividing the wordline period into intervals
 2
    includes dividing a wordline period 10T into intervals t0 = 0,
 3
    t1 = 2T, t2 = 4T, t3 = 6T, t4 = 7T, t5 = 8T, t6 = 9T and t7 = 10T.
 4
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